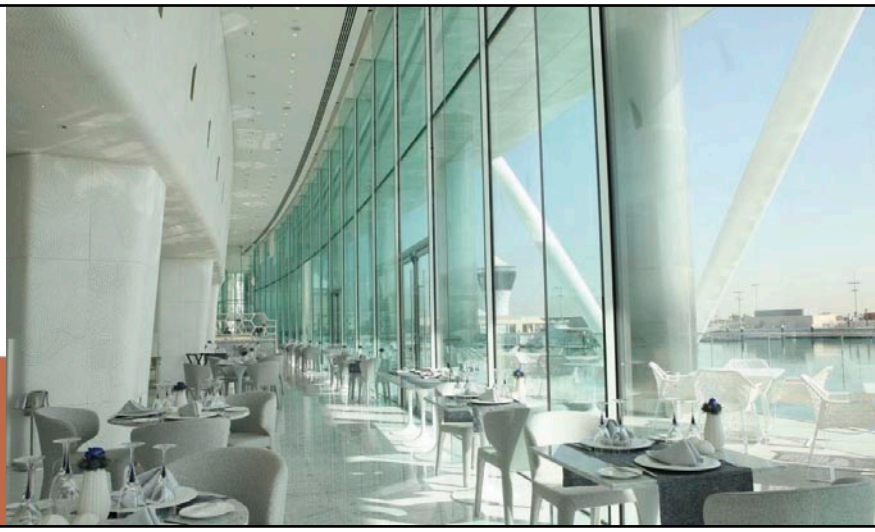
FlexDur Technology

JET NOZZLE SERIES

Jet Drum Louver



✣ JDR APPLICATION

The series JDR Drum Louver outlets are engineered for high capacity, long throw applications such as sports arenas, gymnasiums, conference centers, industrial plants and other large spaces.

The series JDR units have the flexibility to change throw direction and spread of the discharge jet with individually adjustable deflection blades and a rotating cylindrical drum assembly.

✣ JDR STANDARD CONSTRUCTION / FEATURES

JDR standards finish is polyester powder coated RAL 9010 white.

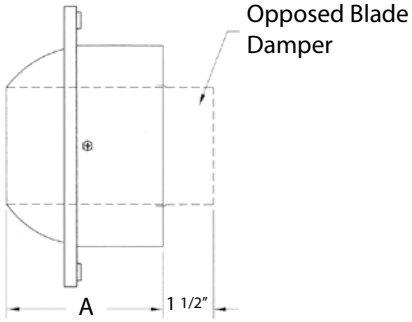
✤ JDR OPTIONS

- Any other RAL colors to suit customers'requirements.

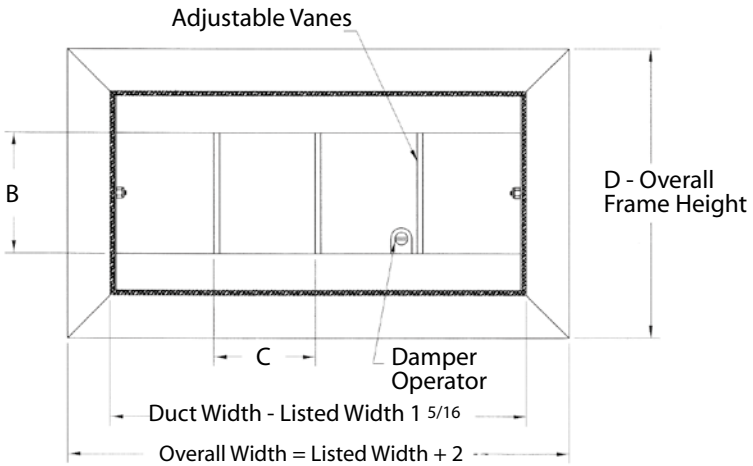
✤ JDR PHYSICAL DIMENSION

Listed Sizes	9	12	18	24	30	36	48	60	20	25	30	35	40	50	60	70	20	25	30	35	40	50	60	70	13	20	25	30	40	50	60	70
No. Blade	2	3	5	7	9	11	15	19	3	4	5	6	7	9	11	13	3	4	5	6	7	9	11	12	2	3	4	5	7	9	11	13
A	4								5 1/2								5 1/2								5 1/2							
B	3 1/2								5 7/8								6 1/4								9 1/2							
C	3								5								5								5							
D	8								12								14								17							

Note: All dimension are based on inches unit.



Side View

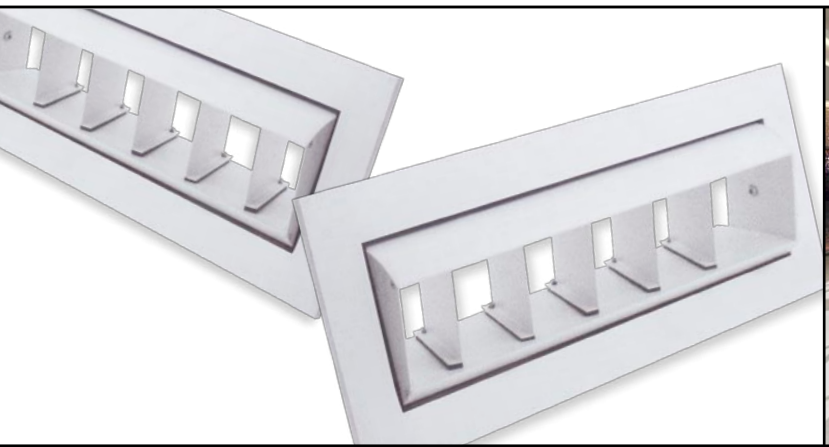


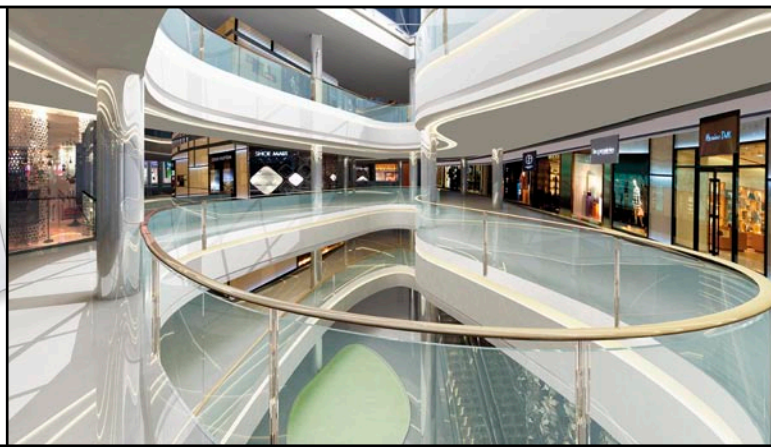
Front View

✤ JDR ORDER KEY INFORMATION

JDR - A + OBD

Accessories	Opposed Blade Damper(OBD)
Material	Aluminum, G.I
Model	JDR - Jet Drum Louver





JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	9" x 6"			12" x 6"			18" x 6"			24" x 6"		
	Duct Opening Area (Sq.Ft.)		0.50			0.65			0.94			1.23	
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	.17	.16	.13	.23	.21	.18	.35	.32	.26	.47	.41	.35
100	Outlet Velocity (fpm)	590	625	770									
	Throw in Feet@Vt = 150 fpm	12	11	9									
	Pt Inches W.G.	.021	.024	.036									
	NC	<	<	<									
200	Outlet Velocity (fpm)	1175	1250	1540	870	950	1110	570	625	770			
	Throw in Feet@Vt = 150 fpm	21	18	15	18	15	12	15	12	11			
	Pt Inches W.G.	.086	.097	.148	.047	.056	.076	.020	.024	.036			
	N	<	<	<	<	<	<	<	<	<			
300	Outlet Velocity (fpm)	1765	1875	2305	1305	1430	1665	855	935	1150	635	730	855
	Throw in Feet@Vt = 150 fpm	32	27	23	29	24	20	26	21	18	24	21	17
	Pt Inches W.G.	.129	.219	.331	.106	.127	.173	.045	.054	.082	.025	.033	.045
	N	22	26	31	<	<	23	<	<	<	<	<	<
400	Outlet Velocity (fpm)				1740	1905	220	1140	1250	1535	850	975	1140
	Throw in Feet@Vt = 150 fpm				36	30	26	35	29	24	32	27	23
	Pt Inches W.G.				.189	.226	.302	.081	.097	.14	.045	.059	.081
	N				23	27	32	<	<	22	<	<	<
500	Outlet Velocity (fpm)							1425	1560	1920	1060	1220	1425
	Throw in Feet@Vt = 150 fpm							41	35	29	25	32	26
	Pt Inches W.G.							.126	.152	.229	.070	.092	.026
	N							20	24	29	<	<	22
600	Outlet Velocity (fpm)							1715	1875	2305	1275	1460	1715
	Throw in Feet@Vt = 150 fpm							45	38	32	42	36	30
	Pt Inches W.G.							.183	.219	.331	.101	.133	.183
	N							25	29	34	<	22	27
700	Outlet Velocity (fpm)							2000	2185	2690	1490	1705	2000
	Throw in Feet@Vt = 150 fpm							50	42	35	47	39	33
	Pt Inches W.G.							.249	.298	.451	.138	.181	.249
	N							30	34	39	23	27	32
800	Outlet Velocity (fpm)										1700	1950	2285
	Throw in Feet@Vt = 150 fpm										51	44	36
	Pt Inches W.G.										.180	.237	.325
	N										27	31	36
900	Outlet Velocity (fpm)										1915	2195	2570
	Throw in Feet@Vt = 150 fpm										57	48	41
	Pt Inches W.G.										.228	.300	.412
	N										30	34	39

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	30" x 6"			36" x 6"			48" x 6"			60" x 6"		
	Duct Opening Area (Sq.Ft.)	1.52			1.81			2.40			2.98		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	.59	.52	.44	.72	.62	.55	.94	.83	.26	1.17	1.05	.88
400	Outlet Velocity (fpm)	675	770	910									
	Throw in Feet@Vt = 150 fpm	27	23	20									
	Pt Inches W.G.	.028	.036	.052									
	NC	<	<	<									
500	Outlet Velocity (fpm)	845	960	1135	695	805	910						
	Throw in Feet@Vt = 150 fpm	36	20	17	22	19	15						
	Pt Inches W.G.	.044	.57	.080	.030	.040	.052						
	N	<	<	<	<	<	<						
600	Outlet Velocity (fpm)	1015	1150	1360	850	965	1090	635	720	855			
	Throw in Feet@Vt = 150 fpm	42	36	30	39	33	27	25	32	26			
	Pt Inches W.G.	.064	.082	.115	.043	.058	.074	.025	.32	.045			
	N	<	<	22	<	<	<	<	<	<			
700	Outlet Velocity (fpm)	1185	1345	1590	970	1130	1270	745	840	1000			
	Throw in Feet@Vt = 150 fpm	48	41	29	45	38	32	44	38	30			
	Pt Inches W.G.	.087	.113	.158	.058	.079	.100	.034	.044	.062			
	N	<	22	27	<	<	<	<	<	<			
800	Outlet Velocity (fpm)	1355	1535	1815	1110	1290	1455	850	960	1140	680	760	910
	Throw in Feet@Vt = 150 fpm	50	44	36	48	41	33	47	39	33	45	38	32
	Pt Inches W.G.	.114	.147	.205	.076	.103	.132	0.45	.057	.001	.028	.036	.052
	N	22	26	31	<	22	27	<	<	<	<	<	<
1000	Outlet Velocity (fpm)	1695	1920	2270	1385	1610	1820	1060	1205	1425	855	950	1135
	Throw in Feet@Vt = 150 fpm	60	51	42	57	48	41	56	47	39	54	47	38
	Pt Inches W.G.	.179	.229	.321	.119	.162	.206	.070	.090	.126	.045	.056	.080
	N	29	33	38	25	29	34	<	<	25	<	<	<
1200	Outlet Velocity (fpm)				1665	1935	2180	1275	1445	1715	1025	1140	1360
	Throw in Feet@Vt = 150 fpm				65	55	45	63	54	44	62	53	44
	Pt Inches W.G.				.173	.233	.298	.101	.130	.183	.065	.081	.115
	N				30	34	39	21	25	30	<	20	25
1400	Outlet Velocity (fpm)				1945	2255	2545	1490	1685	2000	1195	1330	1590
	Throw in Feet@Vt = 150 fpm				72	62	51	71	60	50	69	59	48
	Pt Inches W.G.				.235	.317	.404	.138	.177	.249	.089	.110	.158
	N				35	39	44	26	30	35	21	25	30
1600	Outlet Velocity (fpm)							1700	1925	2285	1365	1520	1815
	Throw in Feet@Vt = 150 fpm							75	63	53	74	63	51
	Pt Inches W.G.							.180	.231	.325	.116	.144	.205
	N							30	34	39	25	29	34
1800	Outlet Velocity (fpm)							1915	2165	2570	1535	1715	2045
	Throw in Feet@Vt = 150 fpm							80	68	56	78	66	54
	Pt Inches W.G.							.228	.292	.412	.147	.183	.260
	N							34	38	43	29	33	38
2000	Outlet Velocity (fpm)										1710	1905	2270
	Throw in Feet@Vt = 150 fpm										84	72	59
	Pt Inches W.G.										.182	.226	.321
	N										32	36	41

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	20" x 10"			25" x 10"			30" x 10"			35" x 10"		
	Duct Opening Area (Sq.Ft.)	1.60			1.97			2.35			2.73		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	.59	.52	.44	.72	.62	.55	.94	.83	.70	1.17	1.05	.88
400	Outlet Velocity (fpm)	590	665	785									
	Throw in Feet@Vt = 150 fpm	89	26	21									
	Pt Inches W.G.	.021	.027	.038									
	NC	<	<	<									
600	Outlet Velocity (fpm)	880	1000	1175	705	800	935	570	665	790			
	Throw in Feet@Vt = 150 fpm	41	35	29	39	33	27	3	29	24			
	Pt Inches W.G.	.048	.062	.086	.030	.039	.054	.020	.027	.039			
	N	<	<	<	<	<	<	<	<	<			
800	Outlet Velocity (fpm)	1175	1336	1570	940	1065	1250	760	890	1050	665	760	890
	Throw in Feet@Vt = 150 fpm	50	42	35	48	41	33	44	38	30	41	35	29
	Pt Inches W.G.	.086	.111	.154	.055	.870	.097	.036	.049	.068	.027	.036	.049
	N	<	23	28	<	<	21	<	<	<	<	<	<
1000	Outlet Velocity (fpm)	1470	1665	1960	1175	1335	1560	950	110	1315	835	950	1110
	Throw in Feet@Vt = 150 fpm	59	50	41	57	48	41	53	45	36	50	42	35
	Pt Inches W.G.	.135	.173	.239	.086	.111	152	.056	.076	.107	.043	.056	.076
	N	28	32	37	21	25	30	<	<	24	<	<	20
1200	Outlet Velocity (fpm)	1765	2000	2350	1410	1600	1875	1140	1335	1580	1000	1140	1335
	Throw in Feet@Vt = 150 fpm	65	54	45	63	54	44	59	50	41	56	47	39
	Pt Inches W.G.	.194	249	.344	.124	.159	.219	.081	.111	.156	.062	.081	.111
	N	35	39	44	28	32	37	22	26	31	<	22	27
1400	Outlet Velocity (fpm)				1645	1865	2185	1335	1555	1840	1165	1335	1555
	Throw in Feet@Vt = 150 fpm				71	60	50	66	56	47	63	54	44
	Pt Inches W.G.				.169	.216	.298	.111	.151	.211	.085	.111	.151
	N				34	38	43	28	32	37	24	28	33
1600	Outlet Velocity (fpm)				1880	2135	2500	1525	1775	2105	1335	1525	1775
	Throw in Feet@Vt = 150 fpm				75	63	53	71	56	50	68	57	47
	Pt Inches W.G.				.221	.284	.389	.145	.197	.276	.111	.145	.197
	N				39	43	48	33	377	42	29	33	38
1800	Outlet Velocity (fpm)							1715	2000	2370	1500	1715	2000
	Throw in Feet@Vt = 150 fpm							78	66	54	75	63	53
	Pt Inches W.G.							.183	.249	.350	.140	.183	.249
	N							38	42	47	33	37	42
2000	Outlet Velocity (fpm)							1905	2220	2630	1665	1905	220
	Throw in Feet@Vt = 150 fpm							83	71	57	80	68	56
	Pt Inches W.G.							.226	.307	.431	.173	.226	.307
	N							42	46	51	37	41	46
2250	Outlet Velocity (fpm)										1875	2140	2500
	Throw in Feet@Vt = 150 fpm										89	75	62
	Pt Inches W.G.										.219	.285	.389
	N										42	46	51

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	40" x 10"			50" x 10"			60" x 10"			70" x 10"		
	Duct Opening Area (Sq.Ft.)	3.10			3.80			4.60			5.30		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	1.35	1.20	1.00	1.70	1.50	1.30	2.05	1.85	1.55	2.40	2.15	1.80
800	Outlet Velocity (fpm)	590	665	800									
	Throw in Feet@Vt = 150 fpm	39	33	27									
	Pt Inches W.G.	.021	0.27	.039									
	NC	<	<	<									
1000	Outlet Velocity (fpm)	740	835	1000	590	665	770						
	Throw in Feet@Vt = 150 fpm	48	42	35	47	39	33						
	Pt Inches W.G.	.034	.043	.062	.021	.027	.036						
	N	<	<	<	<	<	<						
1200	Outlet Velocity (fpm)	890	1000	1200	705	800	925	585	650	775			
	Throw in Feet@Vt = 150 fpm	54	47	38	51	44	36	48	41	33			
	Pt Inches W.G.	.049	.062	.089	.030	.039	.053	.021	.026	.037			
	N	<	<	22	<	<	<	<	<	<			
1400	Outlet Velocity (fpm)	1035	11650	1400	825	935	1075	680	755	905	585	650	775
	Throw in Feet@Vt = 150 fpm	60	51	42	57	48	41	54	47	38	51	44	36
	Pt Inches W.G.	.067	.084	.122	.042	.054	.072	.028	.035	.051	.021	.026	.037
	N	<	23	28	<	<	21	<	<	<	<	<	<
1600	Outlet Velocity (fpm)	1185	1335	1600	940	1065	1230	780	865	1030	665	745	890
	Throw in Feet@Vt = 150 fpm	66	56	47	63	54	44	60	51	42	57	48	41
	Pt Inches W.G.	.087	.111	.159	.055	.070	.094	.038	.046	.066	.027	.034	.049
	N	24	28	33	<	21	26	<	<	21	<	<	<
1800	Outlet Velocity (fpm)	1335	1500	1800	1060	1200	1385	880	970	1160	750	835	1000
	Throw in Feet@Vt = 150 fpm	71	60	50	68	57	47	65	54	45	62	53	44
	Pt Inches W.G.	.111	.140	.201	.070	.089	.119	.048	.058	.083	.035	.043	.062
	N	28	32	37	22	26	31	<	20	25	<	<	20
2000	Outlet Velocity (fpm)	1480	1665	2000	1175	1335	1540	975	1080	1290	835	930	1110
	Throw in Feet@Vt = 150 fpm	77	65	54	74	63	51	71	60	50	68	57	47
	Pt Inches W.G.	.137	.173	.249	.086	.111	.148	.059	.072	.103	.043	.053	.076
	N	32	36	41	26	30	35	20	24	29	<	<	24
2250	Outlet Velocity (fpm)	1665	1875	2250	1325	1500	1730	1095	1215	1450	935	1045	1250
	Throw in Feet@Vt = 150 fpm	83	71	57	80	68	56	77	65	54	74	63	51
	Pt Inches W.G.	.173	.219	.315	.109	.140	.186	.074	.092	.131	.054	.068	.097
	N	37	41	46	31	35	40	25	29	34	20	24	29
2500	Outlet Velocity (fpm)	1850	2085	2500	1470	1665	1925	1220	1350	1610	1040	1160	1390
	Throw in Feet@Vt = 150 fpm	90	77	63	87	74	62	84	72	59	81	69	57
	Pt Inches W.G.	.213	.271	.389	.135	.173	.231	.092	.113	.162	.067	.083	.120
	N	41	45	50	35	39	44	29	33	38	24	28	33
3000	Outlet Velocity (fpm)				1765	2000	2305	1465	1620	1935	1250	1395	1665
	Throw in Feet@Vt = 150 fpm				98	83	68	95	80	66	92	78	65
	Pt Inches W.G.				.194	.249	.331	.134	.164	.233	.097	.121	.173
	N				42	46	51	36	40	45	31	35	40
3500	Outlet Velocity (fpm)							1705	1890	2260	1460	1625	1945
	Throw in Feet@Vt = 150 fpm							104	89	72	101	86	71
	Pt Inches W.G.							.181	.222	.318	.133	.165	.235
	N							42	46	51	37	41	46
3750	Outlet Velocity (fpm)							1830	2025	2420	1560	1745	2085
	Throw in Feet@Vt = 150 fpm							168	92	75	104	89	72
	Pt Inches W.G.							.208	.255	.365	.152	.190	.271
	N							44	48	53	39	43	48
4000	Outlet Velocity (fpm)							1950	2160	2580	1665	1860	2220
	Throw in Feet@Vt = 150 fpm							116	98	81	111	95	78
	Pt Inches W.G.							.237	.291	.415	.173	.215	.307
	N							47	51	56	42	46	51

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	20" x 12"			25" x 12"			30" x 12"			35" x 12"		
	Duct Opening Area (Sq.Ft.)	1.85			2.29			2.83			3.37		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	.69	.61	.52	.87	.77	.64	1.04	.89	.75	1.21	1.06	.90
400	Outlet Velocity (fpm)	580	655	770									
	Throw in Feet@Vt = 150 fpm	18	15	12									
	Pt Inches W.G.	.020	.026	.036									
	NC	<	<	<									
600	Outlet Velocity (fpm)	870	985	1155	690	780	935	575	675	800	495	565	665
	Throw in Feet@Vt = 150 fpm	26	21	18	24	21	17	23	20	15	21	18	1015
	Pt Inches W.G.	.047	.060	.083	.029	.038	.054	.020	.028	.039	.015	.019	.027
	N	<	<	<	<	<	<	<	<	<	<	<	<
800	Outlet Velocity (fpm)	1160	1310	1540	920	1040	1250	770	900	1065	660	755	890
	Throw in Feet@Vt = 150 fpm	35	29	24	33	29	23	32	27	23	30	26	21
	Pt Inches W.G.	.083	.107	.148	.053	.067	.097	.036	.050	.070	.027	.035	0.49
	N	<	20	25	<	<	<	<	<	<	<	<	<
1000	Outlet Velocity (fpm)	145	1640	1925	1150	1300	1560	960	1125	1335	825	945	1110
	Throw in Feet@Vt = 150 fpm	44	38	30	42	36	30	41	35	29	39	33	27
	Pt Inches W.G.	.131	.0167	.21	.082	.105	.152	.057	.078	.111	.042	.055	.076
	N	23	27	32	<	21	26	<	<	<	<	<	<
1200	Outlet Velocity (fpm)	1740	1965	2305	1380	1560	1875	1155	1350	1600	990	1130	1335
	Throw in Feet@Vt = 150 fpm	53	45	36	50	42	35	48	41	33	45	38	32
	Pt Inches W.G.	.189	.241	.331	.118	.152	.219	.083	.113	.159	.061	.079	.111
	N	28	32	37	22	26	31	<	21	26	<	<	22
1400	Outlet Velocity (fpm)				1610	1820	2185	1345	1575	1865	1155	1320	1555
	Throw in Feet@Vt = 150 fpm				56	47	39	53	62	36	50	42	35
	Pt Inches W.G.				.162	.206	.298	.113	.155	.216	.083	.108	.151
	N				27	31	36	22	26	31	<	22	27
1600	Outlet Velocity (fpm)				1840	2075	2500	1540	1795	2135	1320	1510	1775
	Throw in Feet@Vt = 150 fpm				65	54	45	60	51	42	56	47	39
	Pt Inches W.G.				.211	.268	.389	.148	.201	.284	.108	.142	.197
	N				31	35	40	26	30	35	23	27	32
1800	Outlet Velocity (fpm)							1730	2020	2400	1485	1700	2000
	Throw in Feet@Vt = 150 fpm							69	59	48	66	56	47
	Pt Inches W.G.							.186	.254	.359	137	.180	.249
	N							29	33	38	26	30	35
2000	Outlet Velocity (fpm)							1925	2245	2665	1650	1885	2220
	Throw in Feet@Vt = 150 fpm							75	63	53	72	62	51
	Pt Inches W.G.							.231	.314	.443	.170	.221	.307
	N							32	36	41	29	33	38
2250	Outlet Velocity (fpm)										1860	2120	2500
	Throw in Feet@Vt = 150 fpm										81	69	57
	Pt Inches W.G.										.215	.280	.389
	N										32	36	41

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	40" x 12"			50" x 12"			60" x 12"			70" x 12"		
	Duct Opening Area (Sq.Ft.)	3.59			4.45			5.32			6.19		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	.80	.70	.60	1.08	.92	.78	1.37	1.22	1.01	1.65	1.44	1.24
800	Outlet Velocity (fpm)	580	650	785									
	Throw in Feet@Vt = 150 fpm	29	24	20									
	Pt Inches W.G.	.020	.026	.038									
	NC	<	<	<									
1000	Outlet Velocity (fpm)	725	815	980	580	655	805						
	Throw in Feet@Vt = 150 fpm	35	29	24	32	27	23						
	Pt Inches W.G.	.032	.041	.059	.20	.026	.040						
	N	<	<	<	<	<	<						
1200	Outlet Velocity (fpm)	870	975	1175	695	785	965	575	640	765			
	Throw in Feet@Vt = 150 fpm	38	32	26	35	29	24	32	27	23			
	Pt Inches W.G.	.047	.059	.086	.030	.038	.058	.020	.025	.036			
	N	<	<	<	<	<	<	<	<	<			
1400	Outlet Velocity (fpm)	1015	1140	1370	810	915	1130	675	745	890	580	645	775
	Throw in Feet@Vt = 150 fpm	41	35	29	38	32	26	35	29	24	33	29	23
	Pt Inches W.G.	.064	.081	.117	.040	.052	.079	.028	.034	.049	.020	.025	.037
	N	<	<	24	<	<	22	<	<	<	<	<	<
1600	Outlet Velocity (fpm)	1160	1300	1570	925	1045	1290	770	850	1020	660	735	885
	Throw in Feet@Vt = 150 fpm	47	39	33	45	38	32	42	36	30	39	33	27
	Pt Inches W.G.	.083	.105	.154	.053	.068	.103	.036	.045	.064	.027	.033	.048
	N	<	23	28	<	<	23	<	<	<	<	<	<
1800	Outlet Velocity (fpm)	1305	1465	1765	1040	1175	1450	885	955	1145	745	830	995
	Throw in Feet@Vt = 150 fpm	60	51	42	57	48	41	56	47	39	53	45	36
	Pt Inches W.G.	.106	.134	.194	.067	.086	.131	.046	.057	.082	.034	.043	.061
	N	22	26	31	<	21	26	<	<	<	21	<	<
2000	Outlet Velocity (fpm)	1450	1625	1960	1155	1305	1610	960	1065	1275	825	920	1105
	Throw in Feet@Vt = 150 fpm	68	57	47	62	53	44	59	50	41	56	47	39
	Pt Inches W.G.	.131	.165	.239	.083	.106	.162	.057	.070	.101	.042	.053	.076
	N	25	29	34	20	24	29	<	<	24	<	<	20
2250	Outlet Velocity (fpm)	1630	1830	2205	1300	1470	1815	1080	1195	1435	930	1035	1245
	Throw in Feet@Vt = 150 fpm	75	63	53	69	59	48	66	56	47	63	54	43
	Pt Inches W.G.	.166	.208	.303	.105	.135	.205	.072	.089	.128	.053	.067	.096
	N	29	33	38	24	28	33	<	23	28	<	<	24
2500	Outlet Velocity (fpm)	1810	2030	2450	1445	1635	2015	1200	1330	1590	1035	1150	1380
	Throw in Feet@Vt = 150 fpm	81	69	57	75	63	53	72	62	51	69	59	48
	Pt Inches W.G.	.204	.256	.374	.130	.166	.253	.089	.110	.158	.067	.082	.118
	N	32	36	41	27	31	36	22	26	31	<	22	27
3000	Outlet Velocity (fpm)				1735	1960	2420	1440	1595	1910	1240	1380	1655
	Throw in Feet@Vt = 150 fpm				90	77	63	84	72	59	81	69	57
	Pt Inches W.G.				.187	.239	.365	.129	.158	.227	.095	.118	.171
	N				32	36	41	27	31	36	23	27	32
3500	Outlet Velocity (fpm)							1680	1860	2230	1445	1610	1935
	Throw in Feet@Vt = 150 fpm							96	81	68	93	80	65
	Pt Inches W.G.							.176	.215	.310	.130	.162	.233
	N							32	36	41	28	32	37
4000	Outlet Velocity (fpm)							1925	2125	2545	1650	1845	2210
	Throw in Feet@Vt = 150 fpm							108	92	75	105	89	74
	Pt Inches W.G.							.231	.281	.404	.170	.212	.304
	N							36	40	45	32	36	41
4500	Outlet Velocity (fpm)										1860	2075	2485
	Throw in Feet@Vt = 150 fpm										114	98	80
	Pt Inches W.G.										.215	.268	.384
	N										35	39	44

JDR PERFORMANCE DATA

CFM	Listed Sizes (inches)	40" x 15"			50" x 15"			60" x 15"			70" x 15"		
	Duct Opening Area (Sq.Ft.)	3.10			3.80			4.60			5.30		
	Deflection AK	0°	15°	30°	0°	15°	30°	0°	15°	30°	0°	15°	30°
	Outlet Area (Sq.Ft.)	2.17	1.93	1.60	2.69	2.40	2.03	3.21	2.83	2.36	3.68	3.30	2.78
1500	Outlet Velocity (fpm)	690	775	935									
	Throw in Feet@Vt = 150 fpm	38	32	26									
	Pt Inches W.G.	.029	.037	.054									
	NC	<	<	<									
1750	Outlet Velocity (fpm)	805	905	1095	650	730	860						
	Throw in Feet@Vt = 150 fpm	44	38	30	41	35	29						
	Pt Inches W.G.	.040	.051	.074	.026	.033	.046						
	N	<	<	<	<	<	<						
2000	Outlet Velocity (fpm)	920	1035	1250	745	835	985	625	705	845			
	Throw in Feet@Vt = 150 fpm	50	42	35	47	39	33	44	38	30			
	Pt Inches W.G.	.053	.067	.097	.034	.043	.060	.024	.030	.044			
	N	<	20	25	<	<	20	<	<	<			
2250	Outlet Velocity (fpm)	1035	1165	1405	835	935	1110	700	795	955	610	680	810
	Throw in Feet@Vt = 150 fpm	56	47	39	53	45	36	50	42	35	48	41	33
	Pt Inches W.G.	.067	.084	.123	.043	.054	.076	.030	.039	.057	0.23	.028	.040
	N	20	24	29	<	<	23	<	<	<	<	<	<
2500	Outlet Velocity (fpm)	1150	1295	1560	930	1040	1230	780	885	1060	680	755	900
	Throw in Feet@Vt = 150 fpm	62	53	44	59	50	41	56	47	39	54	47	38
	Pt Inches W.G.	.082	.104	.152	.053	.067	.094	.038	.048	.070	.028	.035	.050
	N	23	27	32	<	21	26	<	<	22	<	<	<
3000	Outlet Velocity (fpm)	1380	1555	1875	1115	1250	1475	935	1060	1270	815	910	1080
	Throw in Feet@Vt = 150 fpm	74	63	51	69	59	48	66	56	31	47	54	45
	Pt Inches W.G.	.118	.151	.219	.077	.097	.136	.054	.070	.100	0.41	.052	.072
	N	29	33	38	23	27	32	<	22	27	<	<	24
3250	Outlet Velocity (fpm)	1495	1685	2030	1210	1355	1600	1010	1150	1375	885	985	1170
	Throw in Feet@Vt = 150 fpm	80	68	56	75	63	53	72	62	51	69	59	48
	Pt Inches W.G.	.139	.177	.256	.091	.114	.159	.063	.082	.117	.048	.060	.085
	N	31	35	40	25	29	34	21	25	30	<	21	26
3500	Outlet Velocity (fpm)	1610	1815	2185	1300	1460	1725	1090	1235	1485	950	1060	1260
	Throw in Feet@Vt = 150 fpm	86	72	60	81	69	57	78	66	54	75	63	53
	Pt Inches W.G.	.162	.205	.298	.105	.133	.185	.074	.095	.137	.056	.070	.098
	N	33	37	42	27	31	36	23	27	32		23	28
4000	Outlet Velocity (fpm)	1845	2070	2500	1485	1665	1970	1245	1415	1695	1085	1210	1440
	Throw in Feet@Vt = 150 fpm	99	84	46	93	80	65	89	75	62	86	72	60
	Pt Inches W.G.	.212	.267	.389	.137	.173	.242	.096	.124	.179	.073	.091	.129
	N	37	41	46	31	35	40	27	31	36	23	27	32
6000	Outlet Velocity (fpm)										1630	1820	2160
	Throw in Feet@Vt = 150 fpm										128	108	89
	Pt Inches W.G.										.166	.206	.291
	N										35	39	44

Notes:

Definition of units:-

CFM - Cubic Feet per Minute (air)

Out Vel - Velocity of air stream in Feet Per Minute

Ps - Static Pressure = Pt - Pv (inches of water column)

Pt - Total Pressure (inches of water column)

Throw - Non-isothermal horizontal throw (supply air temperature 20°F colder than average room air temperature) values are for 150 fpm velocities for 0°, 15°, and 30° spread

NC - Noise criterion, sound pressure level. NC ratings are based on sound power (Lw) RE: 10E-12 watts minus a 10dB room attenuation in all octave bands

Ak - Area Factors

Throw Calculations for JDR								
Vt (fpm) Terminal Velocity	50	70	80	100	125	150	200	250
Multi Factors	3.0	2.0	1.8	1.5	1.2	1.0	.75	.6

outlet Velocity at 0° deflection should not exceed 2000 FPM. Units should not be selected above cataloged flow rates.

Calculations Velocity and Static Pressure
$\frac{\text{CFM}}{\text{Neck Area in Square Ft.}}$ = Neck Velocity (fpm) $\left(\frac{\{\text{Neck Velocity (fpm)}\}^2}{4005}\right)$ = Pv (velocity Pressure) in. w.c.